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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/019,240	05/13/2002	Jorg Peter Schur	von Kreisler.018	1893	
	7590 02/05/2008	EXAM	EXAMINER		
DANN, DORFMAN, HERRELL & SKILLMAN 1601 MARKET STREET SUITE 2400 PHILADELPHIA, PA 19103-2307			. WINSTON,	. WINSTON, RANDALL O	
			ART UNIT	PAPER NUMBER	
THIEADEETH	IA, I A 17105-2507		1655		
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			MAIL DATE	DELIVERY MODE	
			02/05/2008	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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Office Action Summary		Application No.	Applicant(s)				
		10/019,240	SCHUR, JORG PETER				
		Examiner	Art Unit				
		Randall Winston	1655				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DATE in the may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. O period for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNIC 36(a). In no event, however, may a re vill apply and will expire SIX (6) MONT cause the application to become ABA	ATION. ply be timely filed THS from the mailing date of this communication. ANDONED (35 U.S.C. § 133).				
Status			•				
1)⊠	Responsive to communication(s) filed on <u>18 November 2007</u> .						
2a) <u></u> ☐	This action is FINAL . 2b)⊠ This action is non-final.						
3)[
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Disposit	ion of Claims						
4)🖂	4)⊠ Claim(s) <u>1-6,8-13,15-19 and 22-31</u> is/are pending in the application.						
	4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.							
	6)⊠ Claim(s) <u>1-6,8-13,15-19 and 22-31</u> is/are rejected.						
	Claim(s) is/are objected to.						
8)[_]	Claim(s) are subject to restriction and/o	r election requirement.	•				
Applicat	ion Papers						
9)[The specification is objected to by the Examine	r.					
10) The drawing(s) filed on is/are: a) □ accepted or b) □ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11)	The oath or declaration is objected to by the Ex	aminer. Note the attached	Office Action or form PTO-152.				
Priority (under 35 U.S.C. § 119						
12)	Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. §	119(a)-(d) or (f).				
a)	☐ All b)☐ Some * c)☐ None of:						
 Certified copies of the priority documents have been received. 							
2. Certified copies of the priority documents have been received in Application No							
3. Copies of the certified copies of the priority documents have been received in this National Stage							
	application from the International Bureau						
* See the attached detailed Office action for a list of the certified copies not received.							
Attachmer	•	_					
	ce of References Cited (PTO-892)		ummary (PTO-413))/Mail Date				
	ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO/SB/08)	5) Notice of In	formal Patent Application				
	er No(s)/Mail Date	6) Other:	_ ·				

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DETAILED ACTION

Acknowledgement is made of receipt and entry of the amendment filed on 11/18/2007.

This action is made non-final due to a new ground of rejection.

Claims 1-6, 8-13, 15-19 and 22-31 will be examined on the merits.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1-6, 8-13, 15-19 and 22-31 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 1 is rendered vague and indefinite because of the phrase "one of more flavoring agents selected from tannins; and lactic acid. Does applicant mean tannins and lactic acid are included within the composition together? or Does the composition include one active ingredient and not the other? Clarification is required.

Claim 2 is rendered vague and indefinite because of the phrase "from 0.01 to 25% of and optionally". It is unclear to examiner because the composition is from 0.01 to 25% of what? Clarification is required.

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Claim 6 is rendered vague and indefinite because of the phrase "further comprises lactic acid." It appears to examiner that this claim does not further limit claim 1. Correction is required.

Claim 8 is rendered vague and indefinite because of the phrase "from 0 to 99.8% by weight of propylene glycol." It appears to examiner that this phrase is outside of the limitations of claim 1. Correction is required.

Claim 10 is rendered vague and indefinite because the phrase "composition comprises additional GRAS." Should the above phrase include further comprising? Correction is required.

Claim 24 is rendered vague and indefinite because of the commas after by weight. The comma should not be after by weight. Correction is required.

Claims 25 and 27 are rendered vague and indefinite because each claimed species such as Bacillus subtulis or Pseudomona fluorescens or Bacillus anthracis should be capitalized within the claim. Correction is required.

Claim 31 is rendered vague and indefinite because the phrase "composition further comprises at least one." Should the phrase include a Markush group? (For example. Should the phrase read "composition further comprises an extract selected from the group consisting of at least one"?) Correction is required.

All other claims depend directly or indirectly from the rejected claims and are, therefore, also rejected under 35 U.S.C. 112, second paragraph for the reasons set forth.

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Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-6, 8-13, 15-19, 22-31 stand rejected under 35 U.S.C. 103 as being unpatentable over Schroeder et al. (US 5,591,395) in view of Andrews (US 5569461), Scalbert et al ("Antimicrobial Properties of Tannins, Phytochemistry Vol. 30,No. 12, pp. 3875-3883, 1991), Varga J. (Derwent ACC-NO 1976-72203X, see abstract), Hopp et al. (US 4110430), Isaacs (US 6033705) ,Beerse et al. (US 6284259) and Crawford (US 6,086,904) for the reasons set forth in the previous Office action which are restated below.

Applicant's claims a method for disinfection of air to reduce the concentration of germs comprising the distributing or atomizing of an antimicrobial composition wherein the antimicrobial composition is free from ethanol and isopropanol and wherein the antimicrobial composition comprises propylene glycol, tannins, lactic acid, benzyl alcohol and further comprises hydrocinnamic alcohol, additional GRAS flavoring agents such as essential oils (see, e.g. claims 10 and 31) and an emulsifier (see, e.g. claim 17).

Schroeder et al. teach a method of disinfecting the air to reduce germs (i.e. bacteria) contained within the air comprising distributing an antimicrobial composition comprising of propylene glycols in the air. Schroeder does not teach the other claimed

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active ingredient such as tannins, lactic acid, a benzyl alcohol, a hydrocinnamic alcohol, additional GRAS flavoring agents such as essential oils and an emulsifier contained within its antimicrobial composition to reduce germs such as microbials within the air.

Andrews teaches an antimicrobial composition comprising propylene glycol and lactic acid having antimicrobial activity. (see, e.g. entire patent including claims and abstract).

Scalbert et al. benefically teach (see, e.g., entire article.) tannins to have antimicrobial properties.

Varga J benefically teach (see, e.g. abstract) a benzyl alcohol to have antimicrobial and/or antibacterial properties.

Hopp et al. benefically teach (see, e.g., column 1, lines 21-29 and lines 60-65) a hydrocinnamic alcohol to have antimicrobial and/or antibacterial properties.

Issacs benefically teach (see, e.g., column 10, lines 23-29) an emulsifier may be added to a compound to enhance its antimicrobial effect.

Beerse et al. benefically teach (see, e.g. column 9, lines 19-39) essential oils (i.e. orange etc) to have antimicrobial and/or antibacterial properties.

Crawford beneficially teaches that a composition comprising essential oils (i.e. orange) distributed within the air to disinfect the air (see, e.g. entire patent including abstract and claims).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Schroeder's antimicrobial composition comprising antimicrobial agents to be distributed with the air disinfect the air to include the other

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claimed active ingredients having antimicrobial activity as benefically taught by Andrew, Scalbert, Varga J, Hopp, Isaacs, Beerse and Crawford because the combined above references would create the claimed antimicrobial composition whereas when the claimed composition comprising of well known active ingredients having antimicrobial activity would intrinsically reduce when distributed within the air the concentration of microbial and/or bacteria germs within the air. Furthermore, the adjustment of other conventional working conditions (e.g. the claimed concentrations of the antimicrobial composition within the air, the type of antimicrobial system and/or spray design and the substitution of known bacteria for one another to be treated and/or reduced), is deemed merely a matter of judicious selection and routine optimization which is well within the purview of the skilled artisan.

Accordingly, the claimed invention was prima facie obvious to one of ordinary skill in the art at the time the invention was made, especially in the absence of evidence to the contrary.

Applicant's arguments are deemed moot in view of the full combination of references relied upon in the above 35 USC 103(a) rejection.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Randall Winston whose telephone number is 571-272-0972. The examiner can normally be reached on 8AM-5PM.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Terry McKelvey can be reached on 571-272-0775. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

CHRISTOPHER R. TATE